



A-688A.ST25  
SEQUENCE LISTING

<110> FEIGE, ULRICH  
KOHNO, TADAHIKO  
LACEY, DAVID  
BOONE, THOMAS CHARLES  
  
<120> ADHESION ANTAGONISTS (as amended)  
  
<130> A-688A  
  
<140> US 09/840,277  
<141> 2001-04-23  
  
<150> US 60/198,919  
<151> 2000-04-21  
  
<150> US 60/201,394  
<151> 2000-05-03  
  
<160> 137  
  
<170> PatentIn version 3.2  
  
<210> 1  
<211> 684  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (1)..(684)

<400> 1  
atg gac aaa act cac aca tgt cca cct tgt cca gct ccg gaa ctc ctg 48  
Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu  
1 5 10 15  
ggg gga ccg tca gtc ttc ctc ttc ccc cca aaa ccc aag gac acc ctc 96  
Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu  
20 25 30  
atg atc tcc cgg acc cct gag gtc aca tgc gtg gtg gac gtg agc 144  
Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser  
35 40 45  
cac gaa gac cct gag gtc aag ttc aac tgg tac gtg gac ggc gtg gag 192  
His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu  
50 55 60  
gtg cat aat gcc aag aca aag ccg cgg gag gag cag tac aac agc acg 240  
Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr  
65 70 75 80  
tac cgt gtg gtc agc gtc ctc acc gtc ctg cac cag gac tgg ctg aat 288  
Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn  
85 90 95  
ggc aag gag tac aag tgc aag gtc tcc aac aaa gcc ctc cca gcc ccc 336  
Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro  
100 105 110  
atc gag aaa acc atc tcc aaa gcc aaa ggg cag ccc cga gaa cca cag 384  
Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln  
115 120 125  
gtg tac acc ctg ccc cca tcc cgg gat gag ctg acc aag aac cag gtc 432

## A-688A.ST25

val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln	Val	
130																
135																140
agc	ctg	acc	tgc	ctg	gtc	aaa	ggc	ttc	tat	ccc	agc	gac	atc	gcc	gtg	480
Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	
145																160
150																
gag	tgg	gag	agc	aat	ggg	cag	ccg	gag	aac	aac	tac	aag	acc	acg	cct	528
Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	
165																175
170																
ccc	gtg	ctg	gac	tcc	gac	ggc	tcc	ttc	ttc	ctc	tac	agc	aag	ctc	acc	576
Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	
180																190
185																
gtg	gac	aag	agc	agg	tgg	cag	cag	ggg	aac	gtc	ttc	tca	tgc	tcc	gtg	624
Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	
195																205
200																
atg	cat	gag	gct	ctg	cac	aac	cac	tac	acg	cag	aag	agc	ctc	tcc	ctg	672
Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	
210																220
tct	ccg	ggt	aaa													684
Ser	Pro	Gly	Lys													
225																

<210> 2  
 <211> 228  
 <212> PRT  
 <213> Homo sapiens

<400> 2

Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu

1 5 10 15

Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu

20 25 30

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser

35 40 45

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu

50 55 60

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr

65 70 75 80

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn

85 90 95

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro

100 105 110

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln

115 120 125

Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val

A-688A. ST25

130

135

140

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val  
145 150 155 160

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro  
165 170 175

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr  
180 185 190

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val  
195 200 205

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu  
210 215 220

Ser Pro Gly Lys  
225

<210> 3  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Preferred linker

<400> 3

Gly Gly Gly Lys Gly Gly Gly  
1 5

<210> 4  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Preferred linker

<400> 4

Gly Gly Gly Asn Gly Ser Gly Gly  
1 5

<210> 5  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Preferred linker

<400> 5

Gly Gly Gly Cys Gly Gly Gly Gly  
1 5

<210> 6  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Preferred linker

<400> 6

Gly Pro Asn Gly Gly  
1 5

<210> 7  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Laminin peptide

<400> 7

Tyr Ile Gly Ser Arg  
1 5

<210> 8  
<211> 49  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Echistatin peptide

<400> 8

Glu Cys Glu Ser Gly Pro Cys Cys Arg Asn Cys Lys Phe Leu Lys Glu  
1 5 10 15

Gly Thr Ile Cys Lys Arg Ala Arg Gly Asp Asp Met Asp Asp Tyr Cys  
20 25 30

Asn Gly Lys Thr Cys Asp Cys Pro Arg Asn Pro His Lys Gly Pro Ala  
35 40 45

Thr

<210> 9  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> RGD, NGR derivative peptide

<220>  
<221> misc\_feature  
<222> (2, 5 and)..(7)  
<223> Xaa is any amino acid

<400> 9

Arg Xaa Glu Thr Xaa Trp Xaa  
1 5

<210> 10

<400> 10  
000

<210> 11

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> RGD, NGR derivative peptide

<220>

<221> misc\_feature

<222> (2, 3, 7 and) ..(8)

<223> Xaa is any amino acid

<400> 11

Cys Xaa Xaa Arg Leu Asp Xaa Xaa Cys  
1 5

<210> 12

<400> 12  
000

<210> 13

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> RGD, NGR derivative peptide

<220>

<221> misc\_feature

<222> (1, 2, 3, 7, 8 and) ..(9)

<223> Xaa is any amino acid with xaa at 1, 3, 7 and 9 capable of forming a bridge.

<400> 13

Xaa Xaa Xaa Arg Gly Asp Xaa Xaa Xaa  
1 5

<210> 14

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> RGD, NGR derivative peptide

<220>

A-688A.ST25

<221> misc\_feature  
<222> (2, 3, 4, 5, 6, 12, 13, 14, 15 and) .. (16)  
<223> At positions 2, 3, 4, 5, 6, 12, 13, 14, 15 and 16, xaa is any  
amino acid or may be absent.

<400> 14

Cys Xaa Xaa Xaa Xaa Xaa Cys Arg Gly Asp Cys Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Cys

<210> 15  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> RGD, NGR derivative peptide

<220>  
<221> misc\_feature  
<222> (1 and) .. (8)  
<223> Xaa is an independently selected amino acid.

<220>  
<221> misc\_feature  
<222> (2 and) .. (7)  
<223> Xaa equals 0 to 4 amino acids, each which is independently  
selected.

<220>  
<221> misc\_feature  
<222> (4) .. (4)  
<223> Xaa is selected from the group consisting of glycine and leucine.

<220>  
<221> misc\_feature  
<222> (5) .. (5)  
<223> Xaa is selected from the group consisting of tryptophan and  
leucine.

<400> 15

Xaa Xaa Asp Asp Xaa Xaa Xaa Xaa  
1 5

<210> 16  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> RGD, NGR derivative peptide

<220>  
<221> misc\_feature  
<222> (1 and) .. (10)  
<223> Xaa is any amino acid.

<220>  
<221> misc\_feature

<222> (2 and) .. (9)  
 <223> Xaa equals 0 to 3 amino acids.

<220>  
 <221> misc\_feature  
 <222> (3) .. (3)  
 <223> Xaa is selected from the group consisting of tryptophan and proline.

<220>  
 <221> misc\_feature  
 <222> (6) .. (6)  
 <223> Xaa is selected from the group consisting of glycine and leucine.

<220>  
 <221> misc\_feature  
 <222> (7) .. (7)  
 <223> Xaa is selected from the group consisting of tryptophan and leucine.

<220>  
 <221> misc\_feature  
 <222> (8) .. (8)  
 <223> Xaa is selected from the group consisting of leucine, tryptophan, and methionine.

<400> 16

Xaa Xaa Xaa Asp Asp Xaa Xaa Xaa Xaa Xaa  
 1 5 10

<210> 17  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Vinculin binding/selectin antagonist peptide

<220>  
 <221> misc\_feature  
 <222> (3, 5, 6, 13) .. (15)  
 <223> Xaa is any naturally occurring amino acid residue.

<400> 17

Arg Lys Xaa Asn Xaa Xaa Trp Thr Trp Val Gly Thr Xaa Lys Xaa Leu  
 1 5 10 15

Thr Glu Glu

<210> 18  
 <211> 16  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Vinculin binding/selectin antagonist peptide

<220>  
 <221> misc\_feature  
 <222> (2, 3, 4, 7) .. (15)

A-688A.ST25

<223> Xaa is any naturally occurring amino acid residue

<400> 18

Cys Xaa Xaa Xaa Tyr Thr Xaa Leu Val Ala Ile Gln Asn Lys Xaa Glu  
1 5 10 15

<210> 19

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> vinculin binding/selectin antagonist peptide

<220>

<221> misc\_feature

<222> (3, 4, 5, 6, 8, 13, 15 )..(18)

<223> Xaa is any naturally occurring amino acid residue.

<400> 19

Arg Lys Xaa Xaa Xaa Xaa Trp Xaa Trp Val Gly Thr Xaa Lys Xaa Leu  
1 5 10 15

Thr Xaa Glu

<210> 20

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> vinculin binding/selectin antagonist peptide

<220>

<221> misc\_feature

<222> (2, 5, 6, 7, 12, 13 )..(14)

<223> Xaa is any naturally occurring amino acid residue.

<400> 20

Ala Xaa Asn Trp Xaa Xaa Xaa Glu Pro Asn Asn Xaa Xaa Xaa Glu Asp  
1 5 10 15

<210> 21

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> vinculin binding/selectin antagonist peptide

<220>

<221> misc\_feature

<222> (1, 3, 6, 9, 12 )..(13)

<223> Xaa is any naturally occurring amino acid residue.

<400> 21

A-688A.ST25

Xaa Lys Xaa Lys Thr Xaa Glu Ala Xaa Asn Trp Xaa Xaa  
1 5 10

<210> 22  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

<400> 22

Cys Leu Cys Arg Gly Asp Cys Ile Cys  
1 5

<210> 23  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

<400> 23

Cys Trp Asp Asp Gly Trp Leu Cys  
1 5

<210> 24  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

<400> 24

Cys Trp Asp Asp Leu Trp Trp Leu Cys  
1 5

<210> 25  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

<400> 25

Cys Trp Asp Asp Gly Leu Met Cys  
1 5

<210> 26  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

<400> 26

Cys Trp Asp Asp Gly Trp Met Cys  
1 5

<210> 27

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Integrin antagonist peptide

<400> 27

Cys Ser Trp Asp Asp Gly Trp Leu Cys  
1 5

<210> 28

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Integrin antagonist peptide

<400> 28

Cys Pro Asp Asp Leu Trp Trp Leu Cys  
1 5

<210> 29

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Integrin antagonist peptide

<400> 29

Asn Gly Arg  
1

<210> 30

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Integrin antagonist peptide

<400> 30

Gly Ser Leu  
1

<210> 31

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

A-688A.ST25

<223> Integrin antagonist peptide

<400> 31

Arg Gly Asp  
1

<210> 32

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Integrin antagonist peptide

<400> 32

Cys Gly Arg Glu Cys Pro Arg Leu Cys Gln Ser Ser Cys  
1 5 10

<210> 33

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Integrin antagonist peptide

<400> 33

Cys Asn Gly Arg Cys Val Ser Gly Cys Ala Gly Arg Cys  
1 5 10

<210> 34

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Integrin antagonist peptide

<400> 34

Cys Leu Ser Gly Ser Leu Ser Cys  
1 5

<210> 35

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Integrin antagonist peptide

<400> 35

Gly Ser Leu  
1

<210> 36

<211> 6

<212> PRT

<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

<400> 36

Asn Gly Arg Ala His Ala  
1 5

<210> 37  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide  
<400> 37

Cys Asn Gly Arg Cys  
1 5

<210> 38  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide  
<400> 38

Cys Asp Cys Arg Gly Asp Cys Phe Cys  
1 5

<210> 39  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide  
<400> 39

Cys Gly Ser Leu Val Arg Cys  
1 5

<210> 40  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

<220>  
<221> misc\_feature  
<222> (3)..(4)  
<223> Xaa is any amino acid residue

<400> 40

Asp Leu Xaa Xaa Leu  
1 5

<210> 41  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

<400> 41

Arg Thr Asp Leu Asp Ser Leu Arg Thr Tyr Thr Leu  
1 5 10

<210> 42  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

<400> 42

Arg Thr Asp Leu Asp Ser Leu Arg Thr Tyr  
1 5 10

<210> 43  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

<400> 43

Arg Thr Asp Leu Asp Ser Leu Arg Thr  
1 5

<210> 44  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

<400> 44

Arg Thr Asp Leu Asp Ser Leu Arg  
1 5

<210> 45  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

&lt;400&gt; 45

Gly Asp Leu Asp Leu Leu Lys Leu Arg Leu Thr Leu  
1 5 10

&lt;210&gt; 46

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Integrin antagonist peptide

&lt;400&gt; 46

Gly Asp Leu His Ser Leu Arg Gln Leu Leu Ser Arg  
1 5 10

&lt;210&gt; 47

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Integrin antagonist peptide

&lt;400&gt; 47

Arg Asp Asp Leu His Met Leu Arg Leu Gln Leu Trp  
1 5 10

&lt;210&gt; 48

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Integrin antagonist peptide

&lt;400&gt; 48

Ser Ser Asp Leu His Ala Leu Lys Lys Arg Tyr Gly  
1 5 10

&lt;210&gt; 49

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Integrin antagonist peptide

&lt;400&gt; 49

Arg Gly Asp Leu Lys Gln Leu Ser Glu Leu Thr Trp  
1 5 10

&lt;210&gt; 50

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Integrin antagonist peptide

<220>  
 <221> misc\_feature  
 <222> (2)..(3)  
 <223> Xaa is any amino acid residue

&lt;400&gt; 50

Cys Xaa Xaa Arg Gly Asp Cys  
 1 5

<210> 51  
 <211> 27  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Integrin antagonist peptide

&lt;400&gt; 51

Ser Thr Gly Gly Phe Asp Asp Val Tyr Asp Trp Ala Arg Gly Val Ser  
 1 5 10 15

Ser Ala Leu Thr Thr Leu Val Ala Thr Arg  
 20 25

<210> 52  
 <211> 27  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Integrin antagonist peptide

&lt;400&gt; 52

Ser Thr Gly Gly Phe Asp Asp Val Tyr Asp Trp Ala Arg Arg Val Ser  
 1 5 10 15

Ser Ala Leu Thr Thr Leu Val Ala Thr Arg  
 20 25

<210> 53  
 <211> 30  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Integrin antagonist peptide

&lt;400&gt; 53

Ser Arg Gly Val Asn Phe Ser Glu Trp Leu Tyr Asp Met Ser Ala Ala  
 1 5 10 15

Met Lys Glu Ala Ser Asn Val Phe Pro Ser Arg Arg Ser Arg  
 20 25 30

A-688A.ST25

<210> 54  
<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

<400> 54

Ser Ser Gln Asn Trp Asp Met Glu Ala Gly Val Glu Asp Leu Thr Ala  
1 5 10 15

Ala Met Leu Gly Leu Leu Ser Thr Ile His Ser Ser Ser Arg  
20 25 30

<210> 55  
<211> 31  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

<400> 55

Ser Ser Pro Ser Leu Tyr Thr Gln Phe Leu Val Asn Tyr Glu Ser Ala  
1 5 10 15

Ala Thr Arg Ile Gln Asp Leu Leu Ile Ala Ser Arg Pro Ser Arg  
20 25 30

<210> 56  
<211> 31  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

<400> 56

Ser Ser Thr Gly Trp Val Asp Leu Leu Gly Ala Leu Gln Arg Ala Ala  
1 5 10 15

Asp Ala Thr Arg Thr Ser Ile Pro Pro Ser Leu Gln Asn Ser Arg  
20 25 30

<210> 57  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

<400> 57

Asp Val Tyr Thr Lys Lys Glu Leu Ile Glu Cys Ala Arg Arg Val Ser  
1 5 10 15

Glu Lys

<210> 58  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

<220>  
<221> misc\_feature  
<222> (5)..(5)  
<223> Xaa is any amino acid residue

<400> 58

Arg Gly Asp Gly Xaa  
1 5

<210> 59  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

<220>  
<221> misc\_feature  
<222> (6)..(6)  
<223> Xaa is any amino acid residue

<400> 59

Cys Arg Gly Asp Gly Xaa Cys  
1 5

<210> 60  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

<400> 60

Cys Ala Arg Arg Leu Asp Ala Pro Cys  
1 5

<210> 61  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

<400> 61

Cys Pro Ser Arg Leu Asp Ser Pro Cys  
1 5

<210> 62  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

<400> 62

Cys Asp Cys Arg Gly Asp Cys Phe Cys  
1 5

<210> 63  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

<400> 63

Cys Asp Cys Arg Gly Asp Cys Leu Cys  
1 5

<210> 64  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Integrin antagonist peptide

<400> 64

Arg Gly Asp Leu Ala Ala Leu Ser Ala Pro Pro Val  
1 5 10

<210> 65  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Selectin antagonist peptide

<400> 65

Asp Ile Thr Trp Asp Gln Leu Trp Asp Leu Met Lys  
1 5 10

<210> 66  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Selectin antagonist peptide

A-688A.ST25

<400> 66

Asp Ile Thr Trp Asp Glu Leu Trp Lys Ile Met Asn  
1 5 10

<210> 67

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Selectin antagonist peptide

<400> 67

Asp Tyr Thr Trp Phe Glu Leu Trp Asp Met Met Gln  
1 5 10

<210> 68

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Selectin antagonist peptide

<400> 68

Gln Ile Thr Trp Ala Gln Leu Trp Asn Met Met Lys  
1 5 10

<210> 69

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Selectin antagonist peptide

<400> 69

Asp Met Thr Trp His Asp Leu Trp Thr Leu Met Ser  
1 5 10

<210> 70

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Selectin antagonist peptide

<400> 70

Asp Tyr Ser Trp His Asp Leu Trp Glu Met Met Ser  
1 5 10

<210> 71

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

A-688A.ST25

<223> Selectin antagonist peptide

<400> 71

Glu Ile Thr Trp Asp Gln Leu Trp Glu Val Met Asn  
1 5 10

<210> 72

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Selectin antagonist peptide

<400> 72

His Val Ser Trp Glu Gln Leu Trp Asp Ile Met Asn  
1 5 10

<210> 73

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Selectin antagonist peptide

<400> 73

His Ile Thr Trp Asp Gln Leu Trp Arg Ile Met Thr  
1 5 10

<210> 74

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Selectin antagonist peptide

<400> 74

Arg Asn Met Ser Trp Leu Glu Leu Trp Glu His Met Lys  
1 5 10

<210> 75

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Selectin antagonist peptide

<400> 75

Ala Glu Trp Thr Trp Asp Gln Leu Trp His Val Met Asn Pro Ala Glu  
1 5 10 15

Ser Gln

<210> 76  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Selectin antagonist peptide

<400> 76

His Arg Ala Glu Trp Leu Ala Leu Trp Glu Gln Met Ser Pro  
1 5 10

<210> 77  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Selectin antagonist peptide

<400> 77

Lys Lys Glu Asp Trp Leu Ala Leu Trp Arg Ile Met Ser Val  
1 5 10

<210> 78  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Selectin antagonist peptide

<400> 78

Ile Thr Trp Asp Gln Leu Trp Asp Leu Met Lys  
1 5 10

<210> 79  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Selectin antagonist peptide

<400> 79

Asp Ile Thr Trp Asp Gln Leu Trp Asp Leu Met Lys  
1 5 10

<210> 80  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Selectin antagonist peptide

<400> 80

Asp Ile Thr Trp Asp Gln Leu Trp Asp Leu Met Lys  
1 5 10

<210> 81  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Selectin antagonist peptide

<400> 81

Asp Ile Thr Trp Asp Gln Leu Trp Asp Leu Met Lys  
1 5 10

<210> 82  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Selectin antagonist peptide

<400> 82

Cys Gln Asn Arg Tyr Thr Asp Leu Val Ala Ile Gln Asn Lys Asn Glu  
1 5 10 15

<210> 83  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Selectin antagonist peptide

<400> 83

Ala Glu Asn Trp Ala Asp Asn Glu Pro Asn Asn Lys Arg Asn Asn Glu  
1 5 10 15

Asp

<210> 84  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Selectin antagonist peptide

<400> 84

Arg Lys Asn Asn Lys Thr Trp Thr Trp Val Gly Thr Lys Lys Ala Leu  
1 5 10 15

Thr Asn Glu

<210> 85  
<211> 13

A-688A.ST25

<212> PRT  
<213> Artificial Sequence

<220>  
<223> selectin antagonist peptide

<400> 85

Lys Lys Ala Leu Thr Asn Glu Ala Glu Asn Trp Ala Asp  
1 5 10

<210> 86  
<211> 16

<212> PRT  
<213> Artificial Sequence

<220>  
<223> selectin antagonist peptide

<220>  
<221> misc\_feature  
<222> (3 and)..(15)  
<223> Xaa is any amino acid residue

<400> 86

Cys Gln Xaa Arg Tyr Thr Asp Leu Val Ala Ile Gln Asn Lys Xaa Glu  
1 5 10 15

<210> 87  
<211> 17

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Selectin antagonist peptide

<220>  
<221> misc\_feature  
<222> (13 and)..(15)  
<223> Xaa is any amino acid residue

<400> 87

Ala Glu Asn Trp Ala Asp Gly Glu Pro Asn Asn Lys Xaa Asn Xaa Glu  
1 5 10 15

Asp

<210> 88  
<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Vinculin binding peptide

<400> 88

Ser Ser Gln Asn Trp Asp Met Glu Ala Gly Val Glu Asp Leu Thr Ala  
1 5 10 15

A-688A.ST25

Ala Met Leu Gly Leu Leu Ser Thr Ile His Ser Ser Ser Arg  
20 25 30

<210> 89  
<211> 31  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> vinculin binding peptide

<400> 89

Ser Ser Pro Ser Leu Tyr Thr Gln Phe Leu Val Asn Tyr Glu Ser Ala  
1 5 10 15

Ala Thr Arg Ile Gln Asp Leu Leu Ile Ala Ser Arg Pro Ser Arg  
20 25 30

<210> 90  
<211> 31  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> vinculin binding peptide

<400> 90

Ser Ser Thr Gly Trp Val Asp Leu Leu Gly Ala Leu Gln Arg Ala Ala  
1 5 10 15

Asp Ala Thr Arg Thr Ser Ile Pro Pro Ser Leu Gln Asn Ser Arg  
20 25 30

<210> 91  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> vinculin binding peptide

<400> 91

Asp Val Tyr Thr Lys Lys Glu Leu Ile Glu Cys Ala Arg Arg Val Ser  
1 5 10 15

Glu Lys

<210> 92  
<211> 27  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> vinculin binding peptide

A-688A.ST25

<400> 92

Ser Thr Gly Gly Phe Asp Asp Val Tyr Asp Trp Ala Arg Gly Val Ser  
1 5 10 15

Ser Ala Leu Thr Thr Thr Leu Val Ala Thr Arg  
20 25

<210> 93

<211> 27

<212> PRT

<213> Artificial Sequence

<220>  
<223> vinculin binding peptide

<400> 93

Ser Thr Gly Gly Phe Asp Asp Val Tyr Asp Trp Ala Arg Arg Val Ser  
1 5 10 15

Ser Ala Leu Thr Thr Thr Leu Val Ala Thr Arg  
20 25

<210> 94

<211> 30

<212> PRT

<213> Artificial Sequence

<220>  
<223> vinculin binding peptide

<400> 94

Ser Arg Gly Val Asn Phe Ser Glu Trp Leu Tyr Asp Met Ser Ala Ala  
1 5 10 15

Met Lys Glu Ala Ser Asn Val Phe Pro Ser Arg Arg Ser Arg  
20 25 30

<210> 95

<211> 19

<212> PRT

<213> Artificial Sequence

<220>  
<223> Laminin related peptide

<400> 95

Arg Glu Asp Val Glu Ile Leu Asp Val Tyr Ile Gly Ser Arg Pro Asp  
1 5 10 15

Ser Gly Arg

<210> 96

<211> 19

<212> PRT

<213> Artificial Sequence

<220>  
<223> Laminin related peptide

<400> 96

Tyr Ile Gly Ser Arg Arg Glu Asp Val Glu Ile Leu Asp Val Pro Asp  
1 5 10 15

Ser Gly Arg

<210> 97  
<211> 44  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Used to form echistatin template for PCR

<400> 97  
ggggggcata tggaatgtga atctggtcca tgctgcagaa actg

44

<210> 98  
<211> 44  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Used to form echistatin template for PCR

<400> 98  
taagttcttg aaggaaggta ccatctgtaa gagagctaga ggtg

44

<210> 99  
<211> 44  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Used to form echistatin template for PCR

<400> 99  
acgacatgga cgactactgt aacggtaaga cctgtgactg cccg

44

<210> 100  
<211> 51  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Used to form echistatin template for PCR

<400> 100  
agaaacccac acaagggtcc agctacttaa tggatccgcg gccgcccagc t

51

<210> 101  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>

A-688A.ST25

<223> Used to form echistatin template for PCR

<400> 101

ttcaagaact tacagtttct gcag

24

<210> 102

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Used to form echistatin template for PCR

<400> 102

cgtccatgtc gtcacacctcta gctc

24

<210> 103

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Used to form echistatin template for PCR

<400> 103

gtgtgggttt ctcggggcagt caca

24

<210> 104

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 104

ccgggtaaag gtggaggtgg tggtaatgt gaatctggtc catgctgc

48

<210> 105

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 105

ccgggtaaag gtggaggtgg tggtaatgt gaatctggtc catgctgc

48

<210> 106

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 106

aacataagta cctgttaggat cg

22

<210> 107

<211> 49

## A-688A.ST25

<212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 107  
 gcagcatgga ccagattcac attcaccacc acctccaccc ttacccgga

49

<210> 108  
 <211> 859  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Echistatin Fc-peptide

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> NdeI site

<220>  
 <221> CDS  
 <222> (4)..(849)

<220>  
 <221> misc\_feature  
 <222> (854)..(854)  
 <223> BamHI site

<400> 108  
 cat atg gac aaa act cac aca tgt cca cct tgt cca gct ccg gaa ctc  
 Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu  
 1 5 10 15

48

ctg ggg gga ccg tca gtc ttc ctc ttc ccc cca aaa ccc aag gac acc  
 Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr  
 20 25 30

96

ctc atg atc tcc cgg acc cct gag gtc aca tgc gtg gtg gtg gac gtg  
 Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val  
 35 40 45

144

agc cac gaa gac cct gag gtc aag ttc aac tgg tac gtg gac ggc gtg  
 Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val  
 50 55 60

192

gag gtg cat aat gcc aag aca aag ccg cgg gag gag cag tac aac agc  
 Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser  
 65 70 75

240

acg tac cgt gtg gtc agc gtc ctc acc gtc ctg cac cag gac tgg ctg  
 Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu  
 80 85 90 95

288

aat ggc aag gag tac aag tgc aag gtc tcc aac aaa gcc ctc cca gcc  
 Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala  
 100 105 110

336

ccc atc gag aaa acc atc tcc aaa gcc aaa ggg cag ccc cga gaa cca  
 Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro  
 115 120 125

384

cag gtg tac acc ctg ccc cca tcc cgg gat gag ctg acc aag aac cag  
 Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln

432

## A-688A.ST25

130	135	140	
gtc agc ctg acc tgc ctg gtc	aaa ggc ttc tat ccc	agc gac atc gcc	480
Val Ser Leu Thr Cys Leu Val	Lys Gly Phe Tyr Pro	Ser Asp Ile Ala	
145	150	155	
gtg gag tgg gag agc aat ggg cag ccg gag aac aac tac aag acc acg			528
Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr			
160	165	170	175
cct ccc gtg ctg gac tcc gac ggc tcc ttc ttc ctc tac agc aag ctc			576
Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu			
180	185	190	
acc gtg gac aag agc agg tgg cag cag ggg aac gtc ttc tca tgc tcc			624
Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser			
195	200	205	
gtg atg cat gag gct ctg cac aac cac tac acg cag aag agc ctc tcc			672
Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser			
210	215	220	
ctg tct ccg ggt aaa ggt gga ggt ggt ggt gaa tgt gaa tct ggt cca			720
Leu Ser Pro Gly Lys Gly Gly Gly Gly Glu Cys Glu Ser Gly Pro			
225	230	235	
tgc tgc aga aac tgt aag ttc ttg aag gaa ggt acc atc tgt aag aga			768
Cys Cys Arg Asn Cys Lys Phe Leu Lys Glu Gly Thr Ile Cys Lys Arg			
240	245	250	255
gct aga ggt gac gac atg gac gac tac tgt aac ggt aag acc tgt gac			816
Ala Arg Gly Asp Asp Met Asp Asp Tyr Cys Asn Gly Lys Thr Cys Asp			
260	265	270	
tgc ccg aga aac cca cac aag ggt cca gct act taatggatcc			859
Cys Pro Arg Asn Pro His Lys Gly Pro Ala Thr			
275	280		

&lt;210&gt; 109

&lt;211&gt; 282

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetic Construct

&lt;400&gt; 109

Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu			
1	5	10	15

Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu			
20	25	30	

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser			
35	40	45	

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu			
50	55	60	

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr			
65	70	75	80

A-688A.ST25

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn  
85 90 95

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro  
100 105 110

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln  
115 120 125

Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val  
130 135 140

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val  
145 150 155 160

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro  
165 170 175

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr  
180 185 190

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val  
195 200 205

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu  
210 215 220

Ser Pro Gly Lys Gly Gly Gly Glu Cys Glu Ser Gly Pro Cys  
225 230 235 240

Cys Arg Asn Cys Lys Phe Leu Lys Glu Gly Thr Ile Cys Lys Arg Ala  
245 250 255

Arg Gly Asp Asp Met Asp Asp Tyr Cys Asn Gly Lys Thr Cys Asp Cys  
260 265 270

Pro Arg Asn Pro His Lys Gly Pro Ala Thr  
275 280

<210> 110

<211> 140

<212> DNA

<213> Artificial Sequence

<220>

<223> pAMG21

<220>

<221> misc\_feature

<222> (1)..(1)

<223> AatII site

<220>

## A-688A.ST25

<221> misc\_feature  
 <222> (140)..(140)  
 <223> clai site

<400> 110  
 ctaattccgc ttcacccatc caaacaatgc cccctgcaa aaaataaatt cataaaaaaa 60  
 catacagata accatctgcg gtgataaatt atctctggcg gtgttgacat aaataccact 120  
 ggcgggtata ctgagcacat 140

<210> 111  
 <211> 55  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> pAMG21

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> Clai site

<220>  
 <221> misc\_feature  
 <222> (55)..(55)  
 <223> KpnI site

<400> 111  
 cgatttgatt ctagaaggag gaataacata tggtaacgc gttggaaattc ggtac 55

<210> 112  
 <211> 1546  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> pAMG21

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> AatII sticky end

<220>  
 <221> misc\_feature  
 <222> (1546)..(1546)  
 <223> SacII sticky end

<400> 112  
 gcgtaacgta tgcattggct cccatgcgaa gagtagggaa ctgccaggca tcaaataaaa 60  
 cggaaaggctc agtcgaaaga ctgggcctt cgttttatct gttgtttgtc ggtgaacgct 120  
 ctcctgagta ggacaaatcc gcccggagcg gatggaaacg ttgcgaagca acggcccgaa 180  
 ggggtggcggg caggacgccc gccataaact gccaggcatc aaattaagca gaaggccatc 240  
 ctgacggatg gccttttgc gtttctacaa actctttgt ttattttct aaatacatc 300  
 aaatatggac gtcgtactta actttaaag tatggcaat caattgctcc tgttaaaatt 360  
 gcttttagaaa tactttggca gcgggttggtt gtattgagtt tcatttgcgc attggtaaa 420

A-688A.ST25

tggaaaagtga	ccgtgcgctt	actacagcct	aatattttg	aaatatccca	agagctttt	480
ccttcgcatt	cccacgctaa	acattcttt	tctctttgg	ttaaatcggtt	gtttgattta	540
ttatggcta	tatattttt	tcgataatta	tcaactagag	aaggaacaat	taatggatg	600
ttcatacacy	catgtaaaaa	taaactatct	atatagttgt	ctttctctga	atgtcaaaa	660
ctaagcattc	cgaagccatt	attagcagta	tgaataggg	aactaaaccc	agtgataaga	720
cctgatgatt	tcgcttcatt	aattacattt	ggagatttt	tattnacagc	attgtttca	780
aatatattcc	aattaatcgg	tgaatgattt	gagttagaat	aatctactat	aggatcatat	840
tttattaaat	tagcgtcatc	ataatattgc	ctccattttt	taggtaatt	atccagaatt	900
gaaatatcag	attnaaccat	agaatgagga	taaatgatcg	cgagtaaata	atattcacaa	960
tgtaccattt	tagtcatatc	agataagcat	tgattaatat	cattattgct	tctacaggct	1020
ttaattttat	taattattct	gtaagtgtcg	tcggcattta	tgtctttcat	accatctct	1080
ttatccctac	ctattgtttt	tcgcaagttt	tgcgtttagt	atatcattaa	aacgtaata	1140
gattgacatt	tgattctaatt	aaattggatt	tttgcacac	tattatatcg	cttggaaatac	1200
aattgtttaa	cataagtacc	tgttaggatcg	tacaggttt	cgcaagaaaa	tggtttgtta	1260
tagtcgatta	atcgatttga	ttctagattt	gttttaacta	attaaaggag	gaataacata	1320
tggtaacgc	gttggaaattc	gagctacta	gtgtcgacct	gcagggtacc	atggaaagctt	1380
actcgaggat	ccgcggaaag	aagaagaaga	agaagaaagc	ccgaaaggaa	gctgagttgg	1440
ctgctgccac	cgctgagcaa	taactagcat	aacccttgg	ggcctctaaa	cgggtcttga	1500
ggggttttt	gctgaaagga	ggaaccgctc	ttcacgctct	tcacgc		1546

<210> 113  
 <211> 872  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> GM221

<400> 113	ttatggcgat	gcggccgcac	cattatcacc	gccagaggta	aactagtcaa	cacgcacgg	60
gttagatatt	tatcccttgc	ggtgatagat	tgagcacatc	gatttgattc	tagaaggagg		120
gataatata	gagcacaaaa	aagaaaccat	taacacaaga	gcagctttag	gacgcacg	tc	180
gccttaaagc	attttatgaa	aaaaagaaaa	atgaacttgg	cttacccag	aatctgtcg		240
cagacaagat	ggggatgggg	cagtcaggcg	ttggtgcttt	attnaatggc	atcaatgc		300
taaatgctt	taacgcccga	ttgcttacaa	aaattctcaa	agtttagcgtt	gaagaattt		360
gcccttcaat	cgcgcagagaa	tctacgagat	gtatgaagcg	gttagtatgc	agccgtcact		420
tagaagttag	tatgagtacc	ctgtttttc	tcatgtttag	gcaggatgt	tctcacctaa		480
gttttagaacc	tttaccaaag	gtgatgcgga	gagatggta	agcacaacca	aaaaagccag		540
tgattctgca	ttctggcttg	aggttgaagg	taattccatg	accgcaccaa	caggctccaa		600

A-688A.ST25

gccaagctt	cctgacggaa	tgttaattct	cgttgaccct	gagcaggctg	ttgagccagg	660
tgatttctgc	atagccagac	ttgggggtga	tgagtttacc	ttcaagaaac	tgatcaggga	720
tagcggtcag	gtgttttac	aaccactaaa	cccacagtac	ccaatgatcc	catgcaatga	780
gagttgtcc	gttgtgggga	aagttatcgc	tagtcagtgg	cctgaagaga	cgtttggctg	840
atagactagt	ggatccacta	gtgtttctgc	cc			872

<210> 114  
<211> 1197  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> GM221

<400> 114	ggcgaaacc	gacgtccatc	aatggtgca	aaaccttcg	cggtatggca	tgatagcgcc	60
	cggaagagag	tcaattcagg	gtggtaatg	tgaaaccagt	aacgttatac	gatgtcgcag	120
	agtatgccgg	tgtctttat	cagaccgtt	cccgctggt	gaaccaggcc	agccacgtt	180
	ctgcggaaac	gcggggaaaa	gtcgaagcgg	cgatggcgg	gctgaattac	attcccaacc	240
	gcgtggcaca	acaactggcg	ggcaaacagt	cgctcctgat	tggcggtgcc	acctccagtc	300
	tggccctgca	cgcgcgtcg	caaattgtcg	cggcgattaa	atctcgcgcc	gatcaactgg	360
	gtgccagcgt	ggtgggtgtcg	atggtagaac	gaagcggcgt	cgaagcctgt	aaagcggcgg	420
	tgcacaatct	tctcgcgcaa	cgcgtcagtg	ggctgatcat	taactatccg	ctggatgacc	480
	aggatgccat	tgctgtggaa	gctgcctgca	ctaattttcc	ggcgttattt	cttgcgtct	540
	ctgaccagac	acccatcaac	agtattattt	tctccatga	agacggtacg	cgactggcgc	600
	tggagcatct	ggtcgcattt	ggtcaccagc	aatcgcgt	gttagcgggc	ccattaagtt	660
	ctgtctcggc	gcgtctgcgt	ctggctggct	ggcataaata	tctcactcgc	aatcaaattc	720
	agccgatagc	ggaacgggaa	ggcgaactgga	gtgccatgtc	cggttttcaa	caaaccatgc	780
	aaatgctgaa	tgagggcatc	gttcccactg	cgatgctggt	tgccaacgat	cagatggcgc	840
	tggcgcaat	gcgcgcatt	accgagtccg	ggctgcgcgt	tggtgcgat	atctcggtag	900
	tgggatacga	cgataccgaa	gacagctcat	gttatatccc	gccgttaacc	accatcaaac	960
	aggattttcg	cctgctgggg	caaaccagcg	tggaccgctt	gctgcaactc	tctcagggcc	1020
	aggcggtgaa	gggcaatcag	ctgttgcccg	tctcactggt	aaaaagaaaa	accaccctgg	1080
	cgcacaatac	gcaaaccgcc	tctccccgcg	cgttggccga	ttcattaaatg	cagctggcac	1140
	gacaggtttc	ccgactggaa	agcggacagt	aaggtaccat	aggatccagg	cacagga	1197

<210> 115  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>

A-688A.ST25

<223> Laminin related peptide

<400> 115

Met Tyr Ile Gly Ser Arg Gly Gly Gly Gly  
1 5 10

<210> 116

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 116

Met Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg  
1 5 10 15

<210> 117

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 117

Met Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg  
1 5 10 15

Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg  
20 25

<210> 118

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 118

Met Ile Pro Cys Asn Asn Lys Gly Ala His Ser Val Gly Leu Met Trp  
1 5 10 15

Trp Met Leu Ala Arg Gly Gly Gly Gly  
20 25

<210> 119

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 119

A-688A ST25  
Met Tyr Ile Gly Ser Arg Arg Glu Asp Val Glu Ile Leu Asp Val Pro  
1 5 10 15

Asp Ser Gly Arg Gly Gly Gly Gly  
20 25

<210> 120  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Laminin related peptide

<400> 120

Met Arg Gly Asp Arg Gly Asp Tyr Ile Gly Ser Arg Arg Gly Asp Gly  
1 5 10 15

Gly Gly Gly Gly  
20

<210> 121  
<211> 48  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Encoding Laminin related peptide, for PCR reaction to yield  
in-frame fusion to Fc

<400> 121  
gaataacata tgtacatcgg ttctcgtggt ggaggcggtg gggacaaa 48

<210> 122  
<211> 81  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Encoding Laminin related peptide, for PCR reaction to yield  
in-frame fusion to Fc

<400> 122  
gaataacata tgtacatcgg ttctcgttat attggctccc gctacattgg tagccgtgac 60  
aaaactcaca catgtccacc t 81

<210> 123  
<211> 111  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Encoding Laminin related peptide, for PCR reaction to yield  
in-frame fusion to Fc

<400> 123  
gaataacata tgtacatcgg ttctcgttat attggctccc gctacattgg tagccgttat 60  
atcggctctc gctatattgg tagccgcac aaaactcaca catgtccacc t 111

<210> 124  
 <211> 93  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Encoding Laminin related peptide, for PCR reaction to yield in-frame fusion to Fc

<400> 124  
 gaataacata tgatcccgta caacaacaaa ggtgctcaact ctgttggtct gatgtggtgg 60  
 atgctggctc gtgggtggagg cggtggggac aaa 93

<210> 125  
 <211> 90  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Encoding Laminin related peptide, for PCR reaction to yield in-frame fusion to Fc

<400> 125  
 gaataacata tgtacatcggt ttctcgtcgt gaagacgttg aaatcctgga cgttccggac 60  
 tctggtcgtg gtggaggcggt tggggacaaa 90

<210> 126  
 <211> 75  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Encoding Laminin related peptide, for PCR reaction to yield in-frame fusion to Fc

<400> 126  
 gaataacata tgcgtggta ccgtggtgac tacatcggtt ctcgtcgtgg tgacggtgga 60  
 ggcgggtgggg acaaa 75

<210> 127  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Encoding Laminin related peptide, for PCR reaction to yield in-frame fusion to Fc

<400> 127  
 gttatttgctc agcggtggca 20

<210> 128  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Laminin related peptide

<400> 128

Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg  
1 5 10

<210> 129  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Laminin related peptide

<400> 129

Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg  
1 5 10 15

<210> 130  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Laminin related peptide

<400> 130

Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr  
1 5 10 15

Ile Gly Ser Arg  
20

<210> 131  
<211> 25  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Laminin related peptide

<400> 131

Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr  
1 5 10 15

Ile Gly Ser Arg Tyr Ile Gly Ser Arg  
20 25

<210> 132  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Laminin related peptide

<400> 132

Ile Pro Cys Asn Asn Lys Gly Ala His Ser Val Gly Leu Met Trp Trp  
1 5 10 15

Met Leu Ala Arg  
20

<210> 133  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Laminin related peptide

<400> 133

Tyr Ile Gly Ser Arg Arg Glu Asp Val Glu Ile Leu Asp Val Pro Asp  
1 5 10 15

Ser Gly Arg

<210> 134  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Laminin related peptide

<400> 134

Arg Gly Asp Arg Gly Asp Tyr Ile Gly Ser Arg Arg Gly Asp  
1 5 10

<210> 135  
<211> 25  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Laminin related peptide

<400> 135

Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr  
1 5 10 15

Ile Gly Ser Arg Tyr Ile Gly Ser Arg  
20 25

<210> 136  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Laminin related peptide

<400> 136

Arg Glu Asp Val Glu Ile Leu Asp Val Tyr Ile Gly Ser Arg Pro Asp  
1 5 10 15

Ser Gly Arg

<210> 137  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Laminin related peptide

<400> 137

Tyr Ile Gly Ser Arg Arg Glu Asp Val Glu Ile Leu Asp Val Pro Asp  
1 5 10 15

Ser Gly Arg